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S3	24	java with (instruction near translat\$4)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/12/14 17:10
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1 [On the design of the local variable cache in a hardware translation-based java virtual machine](#)

Hitoshi Oi

June 2005

ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES'05, Volume 40 Issue 7

 Full text available: [pdf\(118.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Hardware bytecode translation is a technique to improve the performance of the Java Virtual Machine (JVM), especially on the portable devices for which dynamic compilation is infeasible. However, since the translation is done on a single bytecode basis, it is likely to generate frequent memory accesses for local variables which can be a performance bottleneck. In this paper, we propose to add a small register file to the datapath of the hardware-translation based JVM and use it as a local variable ...

Keywords: hardware-translation, java virtual machine, memory hierarchy

2 [Machine-adaptable dynamic binary translation](#)

David Ung, Cristina Cifuentes

January 2000

ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN workshop on Dynamic and adaptive compilation and optimization, Volume 35 Issue 7

 Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamic binary translation is the process of translating and optimizing executable code for one machine to another at runtime, while the program is "executing" on the target machine.

Dynamic translation techniques have normally been limited to two particular machines; a competitor's machine and the hardware manufacturer's machine. This research provides for a more general framework for dynamic translations, by providing a framework based on specifications of machines that ...

Keywords: binary translation, dynamic compilation, dynamic execution, emulation, interpretation

3 [Java bytecode to native code translation: the caffeine prototype and preliminary results](#)

Cheng-Hsueh A. Hsieh, John C. Gyllenhaal, Wen-mei W. Hwu

December 1996

Proceedings of the 29th annual ACM/IEEE international symposium on Microarchitecture



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